

Chapter 3, p. 28

1.
 - $L_1 = \{X^{n+1} \text{ for } n = 0,1,2,3\}$
2.
 - There are 3 different ways!
7.
 - Rule 1 Any number is a polynomial
 - Rule 2 The variables x and y are in Polynomial
 - Rule 3 If p and q are in Polynomial, then so are $p+q$, $p-q$, (p) , and pq

Chapter 4, p. 49

2.
 - $(b + aaa)^*$
3.
 - $(s1 + s2 + s3 + s4)(s1 + s2 + s3 + s4)^*$
5.
 - $(a + b)^*(aa + bb)$
 - $(a + b)^*(ab + ba) + a + b + \lambda$